

ABSTRACT

The invention provides electroluminescent phosphor having superior luminance and a long life. The host material is $\text{ZnS} \cdot a\text{AO}$, of which "A" is at least one element selected from among magnesium (Mg), calcium (Ca), strontium (Sr), and barium (Ba). "a" ranges from 0.001 to 0.01. Either one of or both copper (Cu) or manganese (Mn) is contained as an activator. At least one element selected from among chlorine (Cl), bromine (Br), iodine (I), and aluminum (Al) is contained as a co-activator. The luminance and life span of the electroluminescent phosphor can be increased by limiting "a", which represents the proportion of alkaline earth metal oxide (AO) introduced into the zinc sulfide, within the range of 0.001 to 0.01.